

## CLAIMS:

1. A multi-channel audio conversion system, comprising audio mode converting means having a signal input and a signal output for converting audio input signals to audio output signals representing audio in an audio output mode, characterized in that the audio mode converting means are arranged for user controlled conversion from the audio input signals to the audio output signals.
2. The multi-channel audio conversion system according to claim 1, characterized in that the audio mode converting means define a conversion matrix comprising one or more user controlled functions.
3. The multi-channel audio conversion system according to claim 2, characterized in that the user controlled functions are also dependent on one or more of the following quantities:
  - (a) the respective magnitudes of the audio input signals and/or audio output signals;
  - (b) the respective frequency spectra and/or spectral distribution of spectral components of the audio input signals and/or audio output signals; and/or
  - (c) the type of audio, such as speech, movie mode, and the kind of music.
4. The multi-channel audio conversion system according to one of the claims 2 and 3, characterized in that at least one of the user controlled functions are dependent on one variable.
5. The multi-channel audio conversion system according to claim 4, characterized in that the value of the one variable ranges between 0 and 1.
6. The multi-channel audio conversion system according to claim 5, characterized in that the value of one variable lies around 0.5.

7. The multi-channel audio conversion system according to one of the claims 1-6, characterized in the multi-channel audio system has three or more audio output channels for presenting the audio output signals.

8. A method for converting audio input signals to audio output signals representing audio in an audio output mode, characterized in that the conversion is a user controlled audio mode conversion.

9. The method according to claim 8, characterized in that the user controlled audio mode conversion is also dependent on one or more of the following quantities:

(a) the respective magnitudes of the audio input signals and/or audio output signals;

(b) the respective frequency spectra and/or spectral distribution of spectral components of the audio input and/or audio output signals; and/or

(c) the type of audio, such as speech, movie mode, and the kind of music.

10. Signals for use in the multi-channel audio conversion system according to one of the claims 1-7, characterized in that the signals reflect a user controlled audio mode conversion applied by method according to one of the claims 8 and 9.